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MONTANA COMMERCIAL

FEED / FERTILIZER REPORT

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VOLUME 48, 2001

FED 2007

License & Registration Numbers

Feed Program

Issued as of	8/98	7/99	8/00	7/01	7/02
Feed Licenses	569	568	667	656	625
Feed Registrations					
- Companies	339	347	137	123	135
- Pet / Specialty Pet Registrations	2877	3126	3100	2700	2989
- Other Commercial Feeds	3229	3322	0	0	0

Fertilizer Program

Issued as of	8/98	7/99	8/00	7/01	7/02
Fertilizer Licenses	272	264	251	234	230
Fertilizer Registrations					
- Companies	189	181	197	172	147
- Specialty Registrations	1008	999	845	738	1123
- Commercial Fertilizers	327	355	392	384	357
- Soil Amendments	106	126	132	88	173

Feed Sampling History

Year	Samples Taken	Out of Tolerance	% Out of Tolerance
1981	251	73	29.1
1982	332	82	24.7
1983	354	72	20.3
1984	266	64	24.1
1985	406	106	26.1
1986	290	50	17.2
1987	265	60	22.6
1988	280	57	20.4
1989	293	50	17.1
1990	310	54	17.4
1991	241	43	17.8
1992	335	76	22.7
1993	272	71	26.1
1994	312	89	28.5
1995	237	38	16.0
1996	235	77	32.8
1997	264	99	37.5
1998	296	125	42.2
1999	286	88	30.8
2000	266	71	26.7
2001	289	90	31.1

2001 Feed Analysis Breakdown

Nutrient	Analyzed	Out of Tolerance	% Out of Tolerance
Protein	258	27	10.5
NPN	16	0	0
Fiber	5	0	0
Fat	20	2	0
Moisture	45	0	0
Calcium	201	32	15.9
Phosphorus	194	7	3.6
Salt	128	11	8.6
Vitamin A	89	7	7.9
Magnesium	25	1	4
Potassium	41	2	4.9
Zinc	44	9	20.5
Iron	11	2	18.2
Selenium	72	14	19.4
Copper	41	10	24.4
Manganese	11	0	0
Sodium	1	0	0
Lysine	25	0	0
Methionine	19	2	10.5
Amprolium	5	0	0
Chlortetracycline	8	0	0
Lasalocid	14	0	0
Oxtetracycline	3	0	0
Monensin	6	0	0
Sulfamethazine	2	0	0
Total	1284	126	9.8

FDHANA 2001

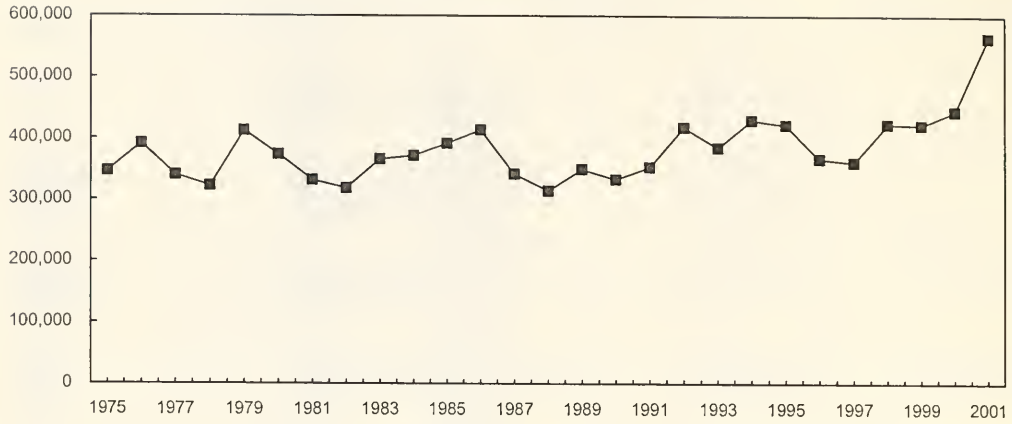
MONTANA COMMERCIAL FEED REPORTED FOR 2001

FORMULA FEEDS		NO. OF TONS	FEED INGREDIENTS	NO. OF TONS
Broiler Feeds	Complete	119	Alfalfa Products	784
	Supplement	8	Animal Products	0
Turkey Feeds	Complete	1,141	Barley Products	4,979
	Supplement	924	Beet Products	3,609
			Brewer Products	260
Starter / Grower	Complete	278		
(Egg-type)	Supplement	38	Canola Products	9,954
			Cottonseed Products	1,383
Layer / Breeder	Complete	3,057	Drug Products	194
(Egg-type)	Supplement	103	Fats & Oils	59
			Linseed Products	268
Beef Feeds	Complete	114,326		
	Supplement	112,953	Maize Products	129,878
			Marine Products	47
Dairy Feeds	Complete	7,761	Meat Products	96
	Supplement	3,795	Milk Products	118
			Mineral Products	15,955
Swine Feeds	Complete	2,725	Molasses	42,999
	Supplement	2,608		
			Oat Products	1,797
Sheep Feeds	Complete	1,048	Probiotic/Yeast	80
	Supplement	2,028		
			Safflower Products	4,019
Horse Feeds	Complete	8,045	Soybean Products	9,788
	Supplement	3,078	Sunflower Products	692
Mineral Feeds	Complete	3,674	Urea	64
	Supplement	6,878		
			Vitamin Products	401
Rabbit Feeds		331		
			Wheat Products	45,805
Mineralized Salt		4,320		
			Misc. Ingredients	3,978
Miscellaneous		8,625		
Formula Feeds Total		**287,863**	**Feed Ingredients Total**	**277,207**

FDTNBK2001

Total Commercial Feed: 565,070 tons

Feed Tonnage History



Year	Tonnage
1975	346,242
1976	391,176
1977	339,946
1978	322,452
1979	412,113
1980	373,463
1981	331,625
1982	318,312
1983	365,620
1984	371,317
1985	391,558
1986	413,452
1987	341,579
1988	314,336
1989	349,280
1990	332,997
1991	352,762
1992	418,090
1993	384,607
1994	429,600
1995	421,846
1996	366,756
1997	360,971
1998	423,573
1999	421,607
2000	444,344
2001	565,070

FDHTON

Fertilizer Sampling & Analysis History

Year	# Samples Taken	# Samples Deficient	% Samples Deficient
1980	506	27	5.3
1981	428	24	5.6
1982	607	41	6.8
1983	558	50	9.0
1984	379	58	15.3
1985	368	55	14.9
1986	228	43	18.9
1987	175	25	14.3
1988	228	18	7.9
1989	128	17	13.3
1990	154	31	20.1
1991	142	18	12.7
1992	107	21	19.6
1993	89	18	20.2
1994	172	21	12.2
1995	216	31	14.4
1996	208	23	11.1
1997	124	18	14.5
1998	172	27	15.7
1999	215	31	14.4
2000	215	37	17.2
2001	222	26	11.7

2001 Fertilizer Sampling & Analysis Breakdown

Nutrient	# Analyzed	# Deficient	% Deficient
Nitrogen	183	7	3.8
Phosphate	127	5	3.9
Potash	100	12	12
Sulfur	45	3	6.7
Iron	19	1	5.3
Zinc	17	0	0
Total	491	28	5.7

MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
Reported by Montana Agricultural Statistic Districts

JANUARY - JUNE 2001

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	0	72	4554	1402	231	8649	535	15,443
Ammonium Nitrate	1021	5138	4987	2289	6348	0	49	19,832
Ammonium Sulfate	1006	1594	3231	2821	1473	4064	270	14,459
Urea	1210	2956	47015	14087	11161	33462	4264	114,155
Ammonium Thiosulfate	0	86	141	24	24	0	0	275
Nitrogen Sols. 32%	60	828	0	532	470	156	0	2,046
Nitrogen Sols. 28%	0	348	1886	175	104	3357	0	5,870
Phosphorus Material	0	10	0	37	912	0	0	959
Potash Material	1316	1421	8837	3385	2138	2369	753	20,219
Sulfur	44	164	248	200	697	0	2	1,355
DAP	805	883	1222	1500	2377	10348	2295	19,430
MAP	959	4683	32959	9303	5882	17357	2883	74,026
APS	1349	2447	2030	1534	886	558	253	9,057
10-34-0	0	11	1224	5	22	110	0	1,372
OTHER BLENDS	24	0	3301	52	0	239	0	3,616
MICRONUTRIENTS	33	33	1	18	107	162	30	384
GYPSUM/LIME	306	0	34	1	1	1002	18	1,362
COMPOST	0	1115	0	0	0	0	0	1,115
TOTALS	8,131	21,789	111,670	37,365	32,833	81,833	11,352	304,973

JULY - DECEMBER 2001

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	0	64	5347	1750	105	9585	753	17,604
Ammonium Nitrate	160	2453	2206	339	1807	13	53	7,031
Ammonium Sulfate	287	576	454	214	1227	2687	123	5,568
Urea	325	1452	21141	11230	9445	37031	1444	82,068
Ammonium Thiosulfate	0	69	86	27	20	74	0	276
Nitrogen Sols. 32%	130	569	116	418	104	14	0	1,351
Nitrogen Sols. 28%	131	17	1034	6	6740	1072	0	9,000
Phosphorus Material	0	76	3803	539	2397	854	0	7,669
Potash Material	248	404	3586	2233	2768	2477	196	11,912
Sulfur	44	86	78	1183	1086	69	9	2,555
DAP	97	222	374	1858	1429	5144	1553	10,677
MAP	194	1135	17659	6326	5984	7332	1227	39,857
APS	122	692	1766	1894	757	0	249	5,480
10-34-0	0	13	381	173	3	50	0	620
OTHER BLENDS	68	0	2302	4691	1249	1	666	8,977
MICRONUTRIENTS	14	8	1	1	142	46	2	214
GYPSUM/LIME	88	0	0	1	23	5	924	1,041
COMPOST	0	0	0	0	0	0	0	0
TOTALS	1,908	7,836	60,334	32,883	35,286	66,454	7,199	211,900

FRTNPK01

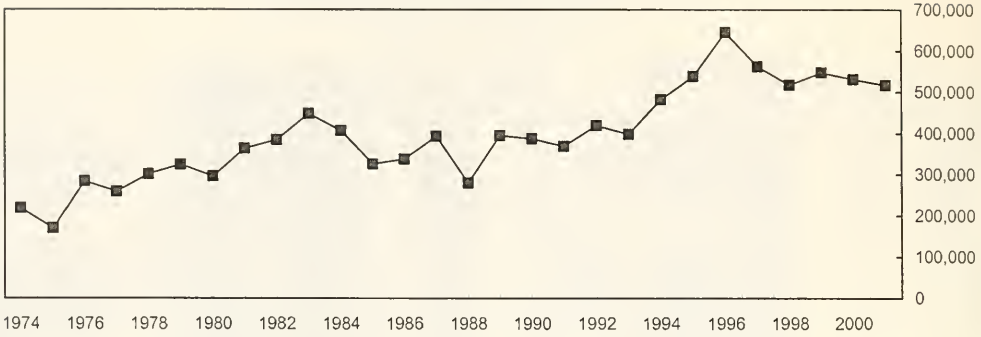
MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
FOR THE YEAR 2001

FERTILIZER	JAN.-JUN. 2001	JULY-DEC. 2001	YEARLY TOTALS
Anhydrous Ammonia	15,443	17,604	33,047
Ammonium Nitrate	19,832	7,031	26,863
Ammonium Sulfate	14,459	5,568	20,027
Urea	114,155	82,068	196,223
Ammonium Thiosulfate	275	276	551
Nitrogen Sols. 32%	2,046	1,351	3,397
Nitrogen Sols. 28%	5,870	9,000	14,870
Phosphorus Material	959	7,669	8,628
Potash Material	20,219	11,912	32,131
Sulfur	1,355	2,555	3,910
DAP	19,430	10,677	30,107
MAP	74,026	39,857	113,883
APS	9,057	5,480	14,537
10-34-0	1,372	620	1,992
OTHER BLENDS	3,616	8,977	12,593
MICRONUTRIENTS	384	214	598
GYPSUM/LIME	1,362	1,041	2,403
COMPOST	1,115	0	1,115
TOTALS	304,973	211,900	516,873

FRTNPK01

TOTAL NITROGEN	91,235	67,772	159,007
TOTAL P205	51,235	33,165	84,399
TOTAL K2O	12,131	7,147	19,279

Fertilizer Tonnage History



Year	Tonnage
1974	219,197
1975	170,324
1976	283,925
1977	259,211
1978	301,487
1979	324,838
1980	295,958
1981	363,295
1982	384,387
1983	447,407
1984	406,567
1985	325,887
1986	337,626
1987	393,505
1988	279,616
1989	395,033
1990	387,583
1991	368,868
1992	418,982
1993	397,957
1994	481,300
1995	538,356
1996	645,344
1997	562,292
1998	517,388
1999	546,943
2000	531,414
2001	516,873

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